

CLAIMS

1 1. A mobile terminal, comprising:
2 a processor;
3 a memory;
4 transceiver circuitry;
5 an internal bus coupled to the memory, to the
6 transceiver circuitry and to the processor; and
7 wherein the memory includes computer instructions
8 that define operational logic of the mobile terminal to
9 enable the mobile terminal to remove IP packet header
10 information of a plurality of data packets and to
11 construct an SMS message.

1 2. The mobile terminal of claim 1 further
2 including computer instructions that define operational
3 logic to enable the mobile terminal to process the
4 constructed SMS message.

1 3. The mobile terminal of claim 1 further
2 including an audio processing circuit for generating
3 audio to be played over a speaker, which audio signals
4 were received as a digital signal by the mobile terminal.

1 4. The mobile terminal of claim 1 further
2 including a speaker coupled to receive an analog signal
3 from the audio processing circuit wherein the speaker
4 creates audio for human perception.

1 5. The mobile terminal of claim 1 further
2 including a microphone for converting sound into
3 electrical signals, which electrical signals are
4 transmitted to the audio processor.

1 6. A mobile terminal, comprising:
2 transceiver circuitry for receiving communication
3 signals over a wireless communication link; and
4 SMS message processing circuitry for reconstructing
5 and processing SMS messages transmitted in a data packet
6 format, the processing circuitry being coupled to receive
7 data packets from the transceiver circuitry.

1 7. The mobile terminal of claim 6 further
2 comprising legacy SMS message processing circuitry
3 wherein the mobile terminal is coupled to receive SMS
4 messages in both data packet and in legacy SMS message
5 formats.

1 8. The mobile terminal of claim 6 further
2 comprising audio processing circuitry coupled to receive
3 communication signals from the transceiver circuitry.

1 9. The mobile terminal of claim 8 further
2 comprising a speaker coupled to the audio processing
3 circuitry for producing sound.

1 10. The mobile terminal of claim 8 further
2 comprising a microphone for receiving sound waves and for
3 converting the received sound waves into electrical

1 signals that are to produced to the audio processor for
2 processing.

1 11. A method in a GPRS capable mobile terminal for
2 receiving an SMS message, comprising:

3 receiving a plurality of data packets;
4 determining that the plurality of data packets form
5 an SMS message;
6 removing packet header information;
7 reforming an SMS message; and
8 processing the SMS message by SMS processing
9 circuitry within the mobile terminal.

1 12. The method of claim 11 further including the
2 step of receiving an SMS message in a legacy format and
3 then processing the SMS message by the SMS processing
4 circuitry within the mobile terminal.

1 13. The method of claim 11 further including the
2 step of transmitting an SMS message from the mobile
3 terminal to a base station in a data packet format.

1 14. The method of claim 13 further including the
2 step of converting an SMS message into a plurality of
3 data packets.

1 15. The method of claim 14 further including the
2 step of inserting an IP address of a message center
3 within a header of each of the data packets.